

NNDC STAND: ACTIVITIES AND SERVICES OF THE NATIONAL NUCLEAR DATA CENTER

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The NNDC stand will be prepared in a form of major poster to be on display for the duration of the whole conference. The stand aims to give an overview of the NNDC activities and recently upgraded data services.

The National Nuclear Data Center (NNDC) collects, evaluates, and disseminates nuclear physics data for basic nuclear research, applied nuclear technologies and for national security. The NNDC provides coordination for US Nuclear Data Program and CSEWG, maintains and contributes to the nuclear structure (ENSDF, NSR, XUNDL) and nuclear reactions (ENDF, CSISRS, CINDA) databases along with several derived databases, and prepares for publication Nuclear Data Sheets and Nuclear Wallet Cards.

Recently, the NNDC migrated US Nuclear Data Program databases and Web Services from an Oracle/VMS to a Sybase/Linux production environment. The new Web-based nuclear data retrieval system is tightly integrated with nuclear structure and reactions evaluations and compilation efforts.

Nuclear Structure Data Services were significantly upgraded to improve capabilities and user friendliness for ENSDF and NSR databases. The new ENSDF Web Services significantly improve and simplify ENSDF nuclear data set retrievals. The new NuDat Web Services enhance search and formatting capabilities for nuclear data, and provide more convenient way to search for levels and gammas.

Nuclear Reaction Data Services were substantially upgraded to provide a better access to reaction data compilations and evaluations. New Web interfaces for CSISRS and ENDF databases, developed in collaborative effort with the IAEA Vienna, provide wide range of options for data retrievals and analysis using standard and interpreted formats as well as graphic tools.